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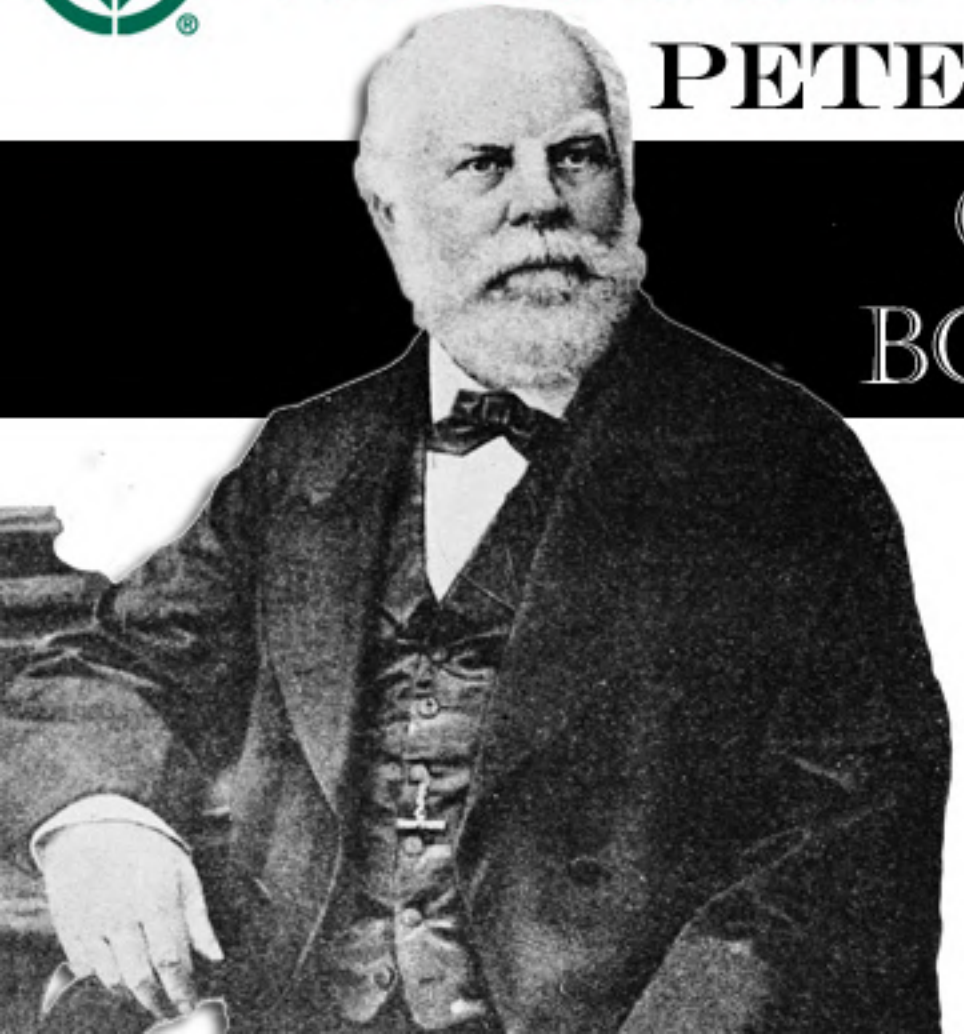

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Euphorbiaceae

of the U. States and adjacent regions.

I. Stipulatae

folia opposita stipulata, inaequilatera, glandulae 4
nudae s. appendiculatae; stigmata 3 erecta 3. clavata
s. capitata.

1. Jatrophae. semina plerumque minora
laevia s. undulata rugosa, ornata

a. Integrifoliae

† annuae

1. E. ocellata Durand & Hilg. folia deltoideis acuta;
stipulis setaceis; involucris 5-gonis, glandulis
magnis inappendiculatis; stylis brevissimis semibifidis
ramis teretibus; seminibus subglobosis laevibus.
Rosa Creek, Calif. Heerman. — Leaves 3
lines long; seeds 0.7 line long.

2. E. polygonifolia Lin. Atlantic and Gulf Coast

β. subappendiculata Texas Lindheimer, a
transition to the next species.

3. E. petaloidea n sp. erecta — patula; foliis oblongis
seu lineanibus retusis mucronatis; appendiculibus
albis; stylis 2-partitis; seminibus ovatis laevibus.

4. Nicolletii foliis (brevibus, stylisque
seminibus ovatis, ~~ruptis~~ anthodiis cymulosis

β. media foliis angustioribus, stylis longioribus
inflorescentia cymulosa

cm 0 1 2 3 4 5 6 7 8 9 10
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γ. Nuttallii (E. arenaria Nutt non H.B.K.)
foliis lineari-bus, authodiis alari-bus, appendiculis
orbiculatis, styli elongati stamin-bus sub globosis

δ. flagelliformis, prioribus similis sed
appendiculi minimi, styli breves.
Western Plains to Texas & New Mexico —
δ Wright. 1826 on the Rio Grande near El Paso

4. E. Geyeri Engelm. folia oblonga retusa mucronata,
styli vix semibifidi breves. Illinois

5 E cordifolia Ell folia orbiculato ovata obtusa, stipe
multifida, authodia alaria, appendices orbiculati
styli 2-partiti elongati. Sem. ovat. laev.

β. inconspicua; appendages very short,
leaves rather narrower,

6 E. hemiarioides Nutt Missouri to Florida, & Mexico
Lindh. 532

β. imbricata Texas Lindh. 693

7. E. tristigmatica n. sp. Mexico Coulter 1447 ÷ part.
orbicular leaves, narrow appendages, 3 capitate
stigm. ovate smooth seeds

8. E. revoluta n sp. Fendler. 789. Wright 1830.
leaves linear, authodi alar; glands naked,
seeds corrugated; — Nat erect ish.

~~9. E. polycarpa Benth.~~

XX glabriusculae N. 9
sem pubescentes. 10 — 12

9. E. polycarpa Benth β. seminibus nigris San Diego
γ. appendiculis nullis Wright. 1854
δ. pubescula Emory, California

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Euphorbiae

Last revision before 1856

* Cactoideae

E. Hystrix

** Anisophyllum s. stipulatae

† Semina laevia

+ folia integra

E. gracillima

E. polygonifolia

E. Geyeri

E. condylea

E. hermannioides E. flexicaulis Schrad. = Pl. L. 532 E. hermannioides var microphylla

E. stipulata

+ + folia serrata s. crenata

E. Peplis

E. Tenderi

†† Semina tuberculata, rugosa s. exsculpta

+ folia integra

E. revoluta

E. saxicola E. rupicola Schrad. Pl. L. 531

E. Greggii

E. cinerascens

E. cinerea

E. saxifraga Pl. L. 694

+ + folia crenata s. serrata

§. semina saccharato vermiculosa

E. Chapmani

E. humistrata

E. longipila E. villifera Schrad. Pl. L. 530.

§§ semina tuberculata

E. brevistipula n. sp. p. 33

§§§. semina transverse rugosa, foveolata s. punctata

E. Chamaesyce

E. maculata genuina

glaberrimae β. notata

γ. concolor,

δ. angusta

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E. intermedia

E. ovalifolia

E. deltoidea

E. densiflora

E. hypericifolia

*** Oppositifoliae pag. 36. ~~Tyrodyophyllum~~ Zygophyllae

E. hexagona Nutt p. 33.

E. Ipecacuanha L. p. 34

E. atrorubens n. sp. p. 34

? E. ~~lanata~~ Sieb p. 35.

**** Cyathophorae

E. dentata Mx p. 36.

E. cyathophora p. 36

E. prunifolia p. 37

E. Wislizeni p. 37. 38.

Umbellatae

***** Corollatae

E. marginata Pursh p. 39

E. bicolor E & Gr. p. 39

E. corollata L p. 40.

E. Curtisii n. sp. p. 40. 41.

E. paniculata Ell. p. 41.

****** Tithymales.

† Heterospiae, sem. rugosa

– + caps. laeves

E. Heterospia L. p. 41

– – caps. verrucosae

E. Arkansana E. & Gr. p. 41

E. Mexicana n. sp. p. 42

E. a seed for Berlin mixed with E. marginata

†† Verrucosae, sem. foveis capsulae verrucosae

– – annuae

E. obtusata Pursh p. 43

E. platyphylla L p. 43

E. stricta p. 43

– – perennes

E. Darlingtonii Torr.

E. dulcis L.

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E. vermiculata Lam

E. carniolica Jacq.

E. pilosa L

E. angulata Jacq.

E. fragifera Lam

E. spinosa L

E. epithymoides L

E. palustris L.

††† Gerardianae, capitulae laeves, semina laevia

E. Gerardiana

E. Lagascae

******* Esula

† Semina laevia

+ Bracteae connatae, Amygdaloides sem. obscura

E. amygdaloides

E. macroceras

E. Characias

+ + Bracteae liberae Cyparissias

§ Semina obscura

E. Esula

E. emarginata ?

E. Cyparissias

E. genistoides

§§ Semina pallida

E. Paralias

E. nicaeensis

E. alexandrina

†† Semina tuberculata, rugosa, s. exsculpta, pallida

+ folia sparsa, Deplotus us

§' Semina granulata s. tuberculata

E. aleppica

E. exigua

E. pithyusa L

§§ Semina exsculpta

a. Bracteae connatae

E. umbratilis Lindh. p. 45 E. Rosmariana Scheele N. J. 528. 699

b. Bracteae liberae

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b. Bracteae liberae

E. Peplus L p. 45

E. commutata n sp. p. 47.

E. Lindheimeri n sp. p. 46 E. Cyparissi Schlecht. Pl. 529. 698

E. cuneifolia n. sp. p. 44

E. montana n. sp. p. 48.

E. Portlandica p. 47.

E. segetalis

E. falcata

+ — + folia opposita

E. Lathyris.

Nov. 1st 1848

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1/ Polygonoideae
1. 2. 3. 4. 5. 6
7. 8. 9

2/ Phytolaccaceae
10. 11. 12 13. 14
15 16

3/ Cheno-
17. 18. 19. 20
21. 22

5/ Caryophyllaceae
26 27 28
29

6/ Ranunculaceae
30 31 32 33
34 35 36

7/ Papaveraceae (?)
37 38 39
40

8/ Hyperophlebe

Arbores (v. scandentes?) elatiores
erectae vel ad
folia et inflorescentias
foliis magnis sessilibus
dense racemoso-spicatis
v. glomeratis
confertis
v. subumbellatis

51. 52. 53.
40 41 42

(4) (1)

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9/ Aparisthmium

43 44 45
2. 47. 48

Arbores v. frutices
erectae foetidae v. odore
pubescentes foliis remote
v. subalterne
anthodiis floribus simulantibus
(i. umbellatis v. cymulosis) terminales
v. glomerulatis capitellatis foveolatis
congestis
seminibus angulatis rugosis tuberculatis
v. punctatis

10/ Cubanthus

46 47 48
9. 50. 8

Arbores erectae v. patulae
glabrae v. pubescentes, subaspere
foliis elongatis, serratis
anthodiis cymulosis
foveolatis terminalibus
seminibus magnis quadrangulatis
v. subcostatis

4 Canae

23 24 25
35 34 20

perennes erectae rigidae, rarius stoloniferae
foliis elongatis, integris
anthodiis paucis subcymulosis
seminibus majoribus ovatis acutis
laevibus vel tuberculatis

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1827 (239) 1851) (518, 1852) ?
Ct San Felipe & San Pedro

Cambridge Oct 6 1856.
Explorations Wightman

1834 (326 1851) 453) — San Pedro, Sonora
Ridehills near Copper mines

1835 / 165 1852 / ? Chenopodium Salado — Lake Santa Maria

1841

343 1851 Hills near Copper mines —

1831 (634 1851 & 266 1852 ?) 729 Sierra de los Animas
South Coy Sonora East Sonora Rocky Sonora

1836 Nueces River & (17. 1851) 25 (1851 ?) 519 (1852 ?)
Thickets of Honda east — Polygala
of San Pedro Lem Springs

1837 181 1851 Stony hills San Pedro Texas

654 (1849 615-781 San Felipe (east of San Pedro
& San Pedro

1820 (1851. 320) 166 Creek valley near Copper mines
Gabriel Soil — Stony hills
Here!

1821 (60 1851) Romero

1822 (28 & 21 1851) Rio Frio
Stony hills - Sonora

1823 (103 1851 Stony prairies east of San Pedro
Limpia

1825 El Paso

(177) 1824 (43) — Santa Maria Chihuahua, banks
Low bottoms of Rio Grande, El Paso

(1404 1849) ---- = Nueces Bottom, gravelly bar

661 (1849 1220) Valley near El Paso

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1820 — 1858. Wrights Exp.

~~8.~~
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~~10 (p. 3)~~
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53

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× 1820
+ 21
× 22
× 23
× 24
× 5
× 6
× 7
× 8
9
1830
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8
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1840
1

E esuleaeformis Schaur
E. brachycera n sp
longicornis Schrenk = Peplis de Natt
consanguinea K ... Peplidion
arkansana var nelsonii
montana
petaloidea var 8
Wrightii Torrey
scoparia
angusta
floridea
revoluta
Gilobea
hexapleura Schizantha
Engelmannii
brachysperma
E. exstipulata
Ostata 8 cyphorpe
E. Cyathophora graminifolia
dentata
dentata β
exstipulata
acuta (1829)
acuta
dilatata
publiflora var disrotor & E. hyssopifol.

sphaeroa α β
Akenosis
acuta
glyptosperma

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1843 Scmula

4 scmula

5 ~~Diptera~~ anreps Benth var² indivisa

6 consanguinea α

7 rupicola β.

8 pedunculifera & ovalifolia

9 ~~cephalantha~~ capitellata

1850 stipularea α & β. & cilicrassifolia

1 rupicola β

2 rupicola α

3 glyptosperma β

4 ~~bracteata~~ polycarpa

5 ovalifolia & glyptosperma β

6 glyptosperma β.

7

~~1858.~~

1849

7 559. cilicrassifolia

6 658 scmula

8 660 rupicola β

5 557 acuta

13 666 consanguinea β.

9 661 montana

2 654 dentata

1 653 erythrophlea

~~12~~

5 655

4 656

10 662

11 663

11 664

12 665

536 1851 rupicola
beta. α & β.

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General remarks

See next page +

Involucrum, 5 lobatum — lobi always mean these divisions of the involucrum; whyd is used.

Between all of these lobes or only between some of them are stipitate, flat or cup shaped glandulae; in the Stipulatae there are 4 glands (rarely less, but never 5) such is not repeated in the description of species —

On the exterior side of these glands (near below the petaloid margin) is often found a petaloid extension. Such is called the appendix; these appendages are broad and transverse or orbicular or ovate & even triangular or lanceolate, entire or emarginate or lobed; they are either all equal or the posterior ones are larger (often next to ovaries capsule) next to the vacant space when an 5th gland is formed, when the 5 glands ought to be —) and the glands are then called Adynamous. —

The styles are distinct or separated united all base, or rarely none; It is not necessary to mention when they are distinct, as that is the usual case only the exceptions are stated.

The styles are almost always bifid — a little more or less so which is a good character. It is not necessary to undivided usually the stigmata are elliptic or orbiculate, which it is unnecessary to

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state; it is only necessary to say when they are clavate or capitate; as these cases are the exceptions.

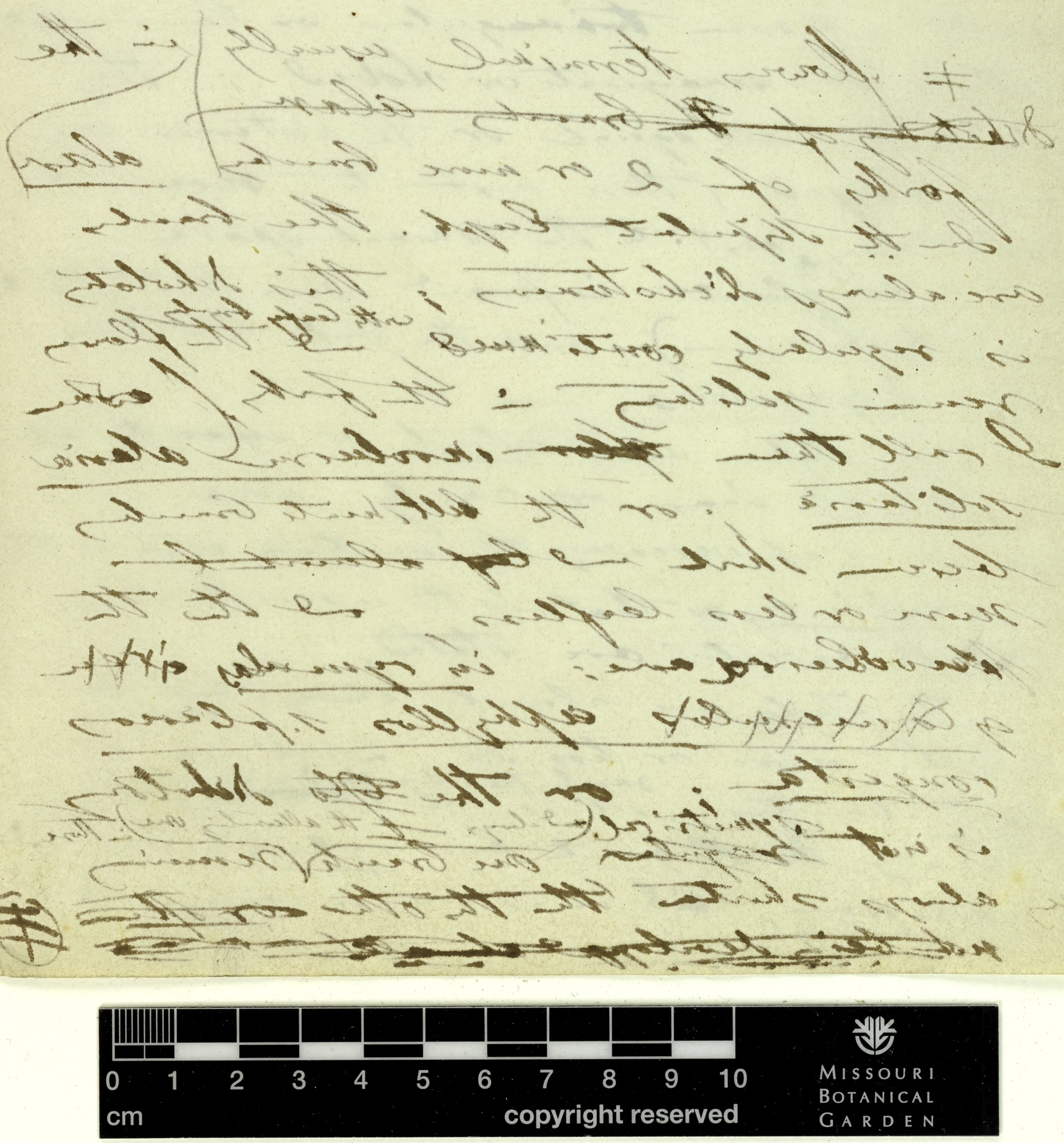
The capsule is obtuse or acute angled. The pendulous seeds are always larger at the lower end opposite to the hilum. — they are 4 angled, but the angles often obliterate, sometimes they are sharp or obtuse — — Seeds ovate or oblong globose or somewhat cubic, or linear.

the former is the rule and will not be mentioned — acute angles are rare and characteristic and will be noticed.

≠ flowers terminal, usually in the forks of 2 or more branches alar

In the Stipulate Capt. the branches are always dichotomous; this dichotomy is regularly continued with each fork of the flowers in pairs; the forks (when I call them nodes) alaria solitary or the whole branch bears short or long leafless or the the peduncles are: in cymules of the cymules aphyllous 1. foliaceous

cymula is or the dichotomy symetrical (always of the alternate one) i. e. one branch (very always shorter than the other or the not bearing the flowers



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(4) and bearing the flowers, while the other terminates the vegetative of the plant; ~~in this~~ these ~~lateral~~ short floriferous alternate bracteate, in the same manner ~~alternate~~ leafy or ~~alternate~~ leafless glomerules ~~of~~ The

~~The~~ gland of the involucrum is in an inner ~~alternate~~ ring not

Stipules always both on the under and upper side on the under side they are often connate, and usually more simple on the upper side they are mostly distinct and commonly more finely ~~laciniate~~ cut and divided.

Leaves always bend on the convex edge and coming down more on the petiole narrower and higher up on the upper side — This is more the case with some and less with others; usually more with the prostrate ones and less with the erect ones.

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Literatur

Euphorbiae

46-108

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Conglomerata Th.

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39. Hubert. Bonpl. Kunth. Nov. g. &c. II. 1817.
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Peters Reise ny Mozambique
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51 Some notes.

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Euphorbia maculata, very large,

upper

Sandy deserts south of the Columbia

Wright Rambles 2 ~~Leiby~~ Cooper, Pat.

A. A. XII. 2. p. 55.

Gibson, 33, Duke St

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Euphorbiaceae

L'Heritier.

Linné, Euphorbii ejusque historia naturalis et medica
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Paris 1823

de Euphorbiaceam generibus Paris 1824.

Roeper. 1824

Lenzer des Euphorbiacées Strasb. 1824

Klotzsch in Wiegmanni Archiv VII Jahrg. 1 & 2 Vol.
1841. Genera Euphorbiacearum (an species?

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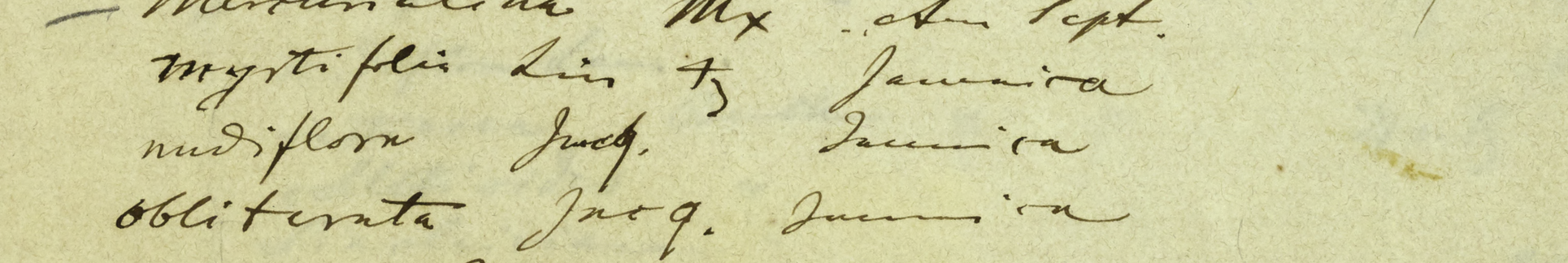
1 North American & Mexican Euphorbiae
ex Steudel Nomenclator

Euph. ammannioides H.B. ♄ Cumana
— antisyphilitica Jacq ♄ Mexico
articulata Burm Lam ♄ Carib. Ins.
buxifolia Lam ♄ Am. austr
campestris Ch & Schl 4 ? Mexico Linn V. 84
centunculoides H.B. ♄ Cuba
— corrolata Lin 4. Am. sept
cuneata Grah. Edinb. Journ. 4 St Louis
— cyathophora Jacq. ♄ Ind occ
— dentata Mx ⊙ Am. sept.
— depressa Torr ⊙ N. Caesar.
— dictyosperma Fisch & Mey. ⊙ N. Calif.
Engelm Humbold
flexuosa H.B. ♄ Cuba Cumana
fulgens Karw. ♄ Mex
furcellata H.B. ♄ N. Hisp
Geminispina Haw ♄ Mex
geniculata Ortega ⊙ Ind occ
glabella Sw ♄ Jamaica
— graminifolia Mich ⊙ Flor.
— Herronii Riddell ⊙ Am sept
heterophylla Lin ♄ Ind. occ.
— hexagona Nutt Am. sept.
— hypericifolia Lin ⊙ ♄ Am austr.
hyssopifolia Lin ⊙ Jamaica
— Ipecacuanhae Lin 4. Am sept.
Lamprocarpa Schlecht ⊙ ? Mexico Linn 7, 143
Lanifera Haw. ♄ Mexico
Linifolia Vahl ♄ Domingo
Magnificaamma Haw ♄ Mexico
— marginata Pursh ⊙ Am sept
— Mercurialina Mx Am sept.
Myrtifolia Lin ♄ Jamaica
nudiflora Jacq. Jamaica
obliterata Jacq. Jamaica
— obtusata Pursh 4 Virginia
obtusifolia Kunth Haenke = Hamb Bank = commutata
oxyphylla Lin ⊙ N. Hispan
— pilulifera Lin ⊙
— polygonifolia Lin ⊙ Am sept
— prostrata Ait ⊙ Ind occ
— pubentissima Mich 4. Carolin

where?



Euphorbia punicea Lam. ♀ Jamaica 15–20 feet high

scandens HBK. ♀ N. Hispan.

variegata Sims ♀ Louisiana

scalpensis HB. ♀ Mexico

serpens HBK

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Euphorbia of North America, Mexico and West Indian Islands

Euphorbia peploides Nutt. N. Amer. 1834 ☉ comp
" heterantha Nutt. " " " ☉ = E. hexagona
" maritima " " " ☉ = E. polyphyllifolia
" hernandioides " " " ☉ -
" arenaria - - - ☉ = E. petaloidea
non H. & B. K.
" cordifolia All ☉ Georgia
" arkansana. Engl. ☉ Arkansas & Texas
" commutata Engl. ☉ United States
" b. velutina Engl ☉ Texas
" hirsutula Engl ☉ United States
~~Halapensis H. B. K. Mexico~~
~~Campestris Cham & Schl~~
" esulaeformis Schauer ♃ Mexico — Linn XX. 618 729
" longicornis Scheele = Linn. XXII 452
" flexicaulis " - ♃ = hernandioides
" rupicola " - ♃
" villifera - - ♃ = velligera Schau? see below
" Roemeriana - - -
" callitrichoides H.B.K. Mexico. Linnaea XX. 727
" velligera Schauer, Mexico. (stipule) Li 20. 728
" leptalea " " Li 21
" Sphaerotiza Benth. = Pl. Hartweg. 84
" radians " " " p. 84
" ariensis H.B.K. & " " p 51
" discolor Bentham Alabama = Bot. Beech. corollata
" fimbrillifera Martius Lin XIX. p. 407
" California Benth. Bot. Sulph p. 49 fig 23. C. fig S. California
" polycarpa " " (stipulis) ☉ " "
" leucophylla " " " " ♃ . "
" Magdalenae - - " - ♃ - .
" misera " " . . ♃ San Diego
" Hindsiana . . fig 24 ♃ South Calif.
" crianthis - - ☉? " -
" anceps " " - - ♃ Mexico
" Nicaeflora Lam. Acapulco
" restiacea Benth " " 45. ♃ Tepic
" colletioides " Acapulco
" Sinaloaensiana "
" Scotanium Schlecht. Lin XIX. 250. ♃ Mexico Del. Gorgona
" Leptalea Schauer Lin. XX 728 ☉ Mexico
" velligera " " " ☉ Mexico
" astroites Fischer & Mey. Ann Sc. Nat V. 3. 71. 4? Mexico
" noctiscita Benth. Pl. Hartw. 51
" tenella H.B.K

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2 Rubi Loones

Euphrasiæ Acutifolii Novi Comm. Bonon 6. 23

bractifolii Desv. Ann 6. 418.

californicum Bentth. Lelyk 23. 24

cyathophorum Lasg. ic 480 Bot. 476

Comm. Gott. 7. 1

Diffusum Lasg ic 88

Kotzebuanum Meyer Linnæa 28

mamulatum. Lasg. Gind II 186

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polygonifolii Lasg. Collect 5. 13

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sistachium Lasg. Collect. 5. 11

Ursinum Lasg. ic. 186

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parviflorum . . . . . f. 2

virens Lasg. ic. nov. 477

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~~Rosa Lasg. ic. nov. 477~~

Kunth..

Linnæa I. 922

Dalechampii Thalictroides

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